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| _ | APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. | | |
|------------|--------------------------|-------------|----------------------|-------------------------|------------------|--|--|
| 10/718,896 | | 11/20/2003 | Yung-Chang Lin | JCLA11793 | 1665 | | |
| | 23900 7 | 03/03/2005 | · | EXAM | EXAMINER | | |
| | J C PATENT 4 VENTURE, | • | | VU, D. | VU, DAVID | | |
| | IRVINE, CA | | | ART UNIT | PAPER NUMBER | | |
| | | | | 2818 | | | |
| | | | | DATE MAILED: 03/03/2005 | | | |

Please find below and/or attached an Office communication concerning this application or proceeding.

| | | Application | n No | Applicant(s) | | | | | |
|---|--|-----------------|--|--------------------|-------------|--|--|--|--|
| Office Action Summary | | 10/718,89 | | LIN ET AL. | | | | | |
| | | Examiner | | Art Unit | | | | | |
| | · | DAVID VU | • | 2818 | | | | | |
| | The MAILING DATE of this communication a | | | | Idress | | | | |
| Period fo | | .pp | | | | | | | |
| A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). | | | | | | | | | |
| Status | | | , | | | | | | |
| 1)⊠ | Responsive to communication(s) filed on 20 | November 20 | 003. | | | | | | |
| • | • | his action is n | | | • | | | | |
| 3) | Since this application is in condition for allow | wance except | for formal matters, pro | secution as to the | e merits is | | | | |
| closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. | | | | | | | | | |
| Disposit | ion of Claims | | | | | | | | |
| • | Claim(s) 1-33 is/are pending in the applicati | on | | | | | | | |
| 7)[2] | 4a) Of the above claim(s) is/are withdrawn from consideration. | | | | | | | | |
| 5) | 5) Claim(s) is/are allowed. | | | | | | | | |
| - | 6) Claim(s) is/are rejected. | | | | | | | | |
| 7) Claim(s) is/are objected to. | | | | | | | | | |
| • | Claim(s) 1-33 are subject to restriction and/ | or election req | uirement. | | | | | | |
| Applicat | ion Papers | , | | | | | | | |
| 9)□ | The specification is objected to by the Exam | iner. | | | | | | | |
| • | 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. | | | | | | | | |
| ,,,_ | Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). | | | | | | | | |
| | Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). | | | | | | | | |
| 11) | 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. | | | | | | | | |
| Deignitus | undon 25 U.S.C. \$ 440 | | | , | | | | | |
| • | under 35 U.S.C. § 119 | | | | | | | | |
| 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. | | | | | | | | | |
| | 2. Certified copies of the priority documents have been received in Application No | | | | | | | | |
| | 3. Copies of the certified copies of the priority documents have been received in this National Stage | | | | | | | | |
| | application from the International Bureau (PCT Rule 17.2(a)). | | | | | | | | |
| * See the attached detailed Office action for a list of the certified copies not received. | | | | | | | | | |
| | | | | | | | | | |
| Attachmen | • • | | 4) \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | (PTO 442) | | | | | |
| | ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948) | | 4) Interview Summary Paper No(s)/Mail D | | | | | | |
| 3) Infor | mation Disclosure Statement(s) (PTO-1449 or PTO/SB/ er No(s)/Mail Date | 08) | 5) Notice of Informal F 6) Other: | | O-152) | | | | |

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DETAILED ACTION

Election/Restrictions

Claims 1-33 are pending in this application.

- 1. Restriction to one of the following inventions is required under 35 U.S.C. 121:
- Group I. Claims 7-33, drawn to a semiconductor device, classified in class 257, subclass 314.
- Group II. Claims 1-6, drawn to process of making a semiconductor device, classified in class 438, and subclass 257.
- Inventions II and I are related as process of making and product made. The inventions are distinct if either or both of the following can be shown: (1) that the process as claimed can be used to make another and materially different product or (2) that the product as claimed can be made by another and materially different process (MPEP § 806.05(f)). In the instant case, the device of the group I invention could be made by a materially different process from that of the group II invention, for example, the trench capacitor can be formed by mechanical means instead of forming a contact window opening in inner dielectric layer to expose a portion of protruding electrode and conducting layer.
- 3. Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.

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4. Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

5. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(1).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to David Vu whose telephone number is (571) 272-1798:

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mr. David Nelms can be reached on (571) 272-1787. The fax phone number for this Group is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

David Vu.

Muland